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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/597,353	07/06/2007	Yoshito Katano	09792909-6735	9812	
26263 SONNENSCH	7590 08/17/201 IEIN NATH & ROSEN		EXAM	IINER	
P.O. BOX 061	080		WILSON, Y	WILSON, YOLANDA L	
WACKER DRIVE STATION, WILLIS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER	
CHICAGO, IL 00000-1000		2113			
			MAIL DATE	DELIVERY MODE	
			08/17/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/597,353	KATANO ET AL.	
Examiner	Art Unit	
Yolanda L. Wilson	2113	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
 - after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status		
1)🛛	Responsive to communication(s) filed on <u>01 June 2010</u> .	
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	

Disposition of Claims

Ap

4)⊠	Claim(s) <u>1-8</u> is/are pending in the application.			
	4a) Of the above claim(s) is/are withdrawn from consideration.			
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-8</u> is/are rejected.			
7)	Claim(s) is/are objected to.			
8)□	Claim(s) are subject to restriction and/or election requirement.			
plication Papers				
0. The specification is objected to by the Evaminer				

I The specification is objected to by the Examiner.

10) The drawing(s) filed on	is/are:	a) accepted or b) ob	jected to by t	he Examiner	:
Applicant may not request that a	ny object	tion to the drawing(s) be held	in abeyance.	See 37 CFR	1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All	b) Some * c) None of:			
1.⊠	Certified copies of the priority documents have been received.			

- Certified copies of the priority documents have been received in Application No.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Hefomation Disclosure Statement(s) (PTO/SB/02)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application
Paper No(s)/Mail Date	6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1-6,8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambino et al. (US Publication Number 20020073358A1) in view of Curry et al. (USPN 6032248). As per claims 1 and 8, Lambino et al. discloses a semiconductor device and a data-rewritable nonvolatile memory, said data-rewritable nonvolatile memory having a plurality of data blocks wherein boot program instructions are stored in parallel said boot program instructions, said semiconductor device comprising a central processing unit (CPU) and a read control circuit (RCC), wherein: the RCC is configured to (a) determine whether the first respective data block is faulty or not according to data read out from the first respective block, (b) output the first data to the CPU if the block is determined as not faulty, and (c) read when the first respective data blocks is determined as faulty, second data from the second respective data block and output said second data to the CPU when said second respective data block is determined as not faulty in Figure 3; paragraphs 0020-0021.

Lambino et al. discloses wherein the RCC prevents the CPU from accessing the data-rewritable nonvolatile memory while the RCC determines which data block to output to the CPU in paragraphs 0021.0022, 0025,0030.

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Lambino et al. fails to explicitly state comprising a plurality of pages of data, each said page being stored in parallel in at least two data blocks; and the CPU is configured, in part, to specify to the RCC a read position for reading out each page of the boot program instructions stored in the data-rewritable nonvolatile memory at the starting time, said each page stored in parallel in at least a first respective data block and a second respective data block.

Curry et al. discloses these limitations in column 12, lines 12-21.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have comprising a plurality of pages of data, each said page being stored in parallel in at least two data blocks; and the CPU is configured, in part, to specify to the RCC a read position for reading out each page of the boot program instructions stored in the data-rewritable nonvolatile memory at the starting time, said each page stored in parallel in at least a first respective data block and a second respective data block. A person of ordinary skill in the art would have been motivated to have comprising a plurality of pages of data, each said page being stored in parallel in at least two data blocks; and the CPU is configured, in part, to specify to the RCC a read position for reading out each page of the boot program instructions stored in the data-rewritable nonvolatile memory at the starting time, said each page stored in parallel in at least a first respective data block and a second respective data block because the page information discloses how the data is stored in memory.

 As per claim 2, Lambino et al. discloses wherein the read control circuit is configured to determine whether the block is faulty or not faulty at least according to an Application/Control Number: 10/597,353

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error correction code contained in the data read out from the data-rewritable nonvolatile memory in paragraph 0023.

- 4. As per claim 3, Lambino et al. discloses wherein the read control circuit corrects the data and supplies it to the CPU when it determines that the data is correctable according to the error correction code but otherwise determines that the block is faulty when it determines that the data is uncorrectable data in paragraph 0023.
- 5. As per claim 4, Lambino et al. discloses wherein the read control circuit is configured to determine that the block is faulty or not faulty at least according to a block state information contained in the data read out from the data-rewritable nonvolatile memory in paragraphs 0020-23.
- As per claim 5, Lambino et al. discloses wherein the read control circuit
 determines that the block is faulty when the block state information does not show a
 predetermined value in paragraphs 0020-23.
- As per claim 6, Lambino et al. fails to explicitly state wherein the block state information is stored in a leading page of each of the blocks storing boot program instructions.

Curry et al. discloses these limitations in column 12, lines 12-21.

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have wherein the block state information is stored in a leading page of each of the blocks storing boot program instructions. A person of ordinary skill in the art would have been motivated to have wherein the block state

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information is stored in a leading page of each of the blocks storing boot program instructions because the page information discloses how the data is stored in memory.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lambino et al. in view of Aasheim et al. (USPN 7178061B2). As per claim 7, Lambino et al. and Hashimoto fail to explicitly state wherein the data-rewritable nonvolatile memory is a NAND type flash memory.

Aasheim et al. discloses this limitation in column 9, lines 20-25.

Accordingly, a person of ordinary skill in the art would be motivated to have the data-rewritable nonvolatile memory is a NAND type flash memory. A person of ordinary skill in the art would be motivated to have the data-rewritable nonvolatile memory is a NAND type flash memory because NAND type flash memory is a known type of nonvolatile memory used for storing boot programs.

Response to Arguments

9. Applicant's arguments with respect to claims 1-8 have been considered but are not persuasive. The newly added limitation is disclosed in the Lambino et al. reference, as cited above. Paragraph 0021 discloses how the address select is used to select the valid boot block. Paragraph 0022 discloses the mini-boot is used to perform minimal initialization of the system. Therefore, no other processing is being performed other than the selection of the valid block to boot the system from to continue initialization of the system. This is disclosed in paragraph 0025 and further supported by paragraph 0030.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yolanda L Wilson/ Primary Examiner, Art Unit 2113